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TITLE: Film-forming composition and film formation

INVENTOR(S): Hashimoto, Yutaka; Kamei, Masayuki

PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan

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AB Film-forming compns. polymerizable with UV light or electron beams comprise 1 part $RZaZ1O2CCR1:CH2$ [$R = C4-20$ perfluoroalkyl; $Z = SO2NR2$, $CONR2$, $CH2CH2SO2NR2$, $O-p-C6H4SO2NR2$, $O-p-C6H4CONR2$, $CH2CH2SCH2CH2CONR2$, $CH2CH2NR2$, $CH2CHMeNR2$, $(CH2)3NR2$; $R1 = H$, Me , halo; $R2 = H$, $C1-12$ alkyl, ether group-contg. alkyl; $a = 0, 1$; $Z1 = (CH2)n$; $n = 2-4$], 4-10,000 parts hydrocarbyl acrylates, and 0.005-5% (per total compn.) oil-sol. F-contg. surfactants, giving films with good hardness and corrosion resistance. Thus, a mixt. of $C8F17SO2NEtCH2CH2O2CCH:CH2$ (I) 0.050, N,N',N'' -tris(2-hydroxyethyl)isocyanurate triacrylate 96.945, 3:7 $C8F17SO2NPrCH2CH2O2CCH:CH2-H2C:CMeco2(CH2)15CHMe2$ copolymer (mol. wt. 4000) 0.005, and benzophenone 3.000 parts was coated on steel, dried, and cured in UV light to give a film with surface hardness $>6H$, contact angle 72° , and good corrosion resistance, vs. 3H, 42° , and poor, resp., without I.

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